MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION DEPARTMENTAL APPROVAL PROCESS

This document is maintained by the Wisconsin Department of Commerce (the Department) to establish standards and guidelines for approving manufactured perimeter sediment control and slope interruption products for use on building sites. The approval of erosion and sediment control practices is required in s. Comm 60.21 (1) (d) and 21.125 (1) (d), Wis. Adm. Code.

The Approved Product List will become effective on November 1, 2009. After that date, only manufactured perimeter control and slope interruption products included on the Approved Product List may be used on sites regulated by the department. The Approved Product List will be updated and posted online (http://commerce.wi.gov/SB/SB-SoilErosionControlProgram.html).

Purpose & Operation

Products in this category are intended for use spaced in the direction of slope and at the bottom of disturbed slopes to intercept flow and detain sediment-laden runoff. Detention reduces the velocity of the incoming flows and allows suspended sediment to settle out.

Testing Requirements and Submittal Process:

Manufactured perimeter control and slope interruption products to be used on building construction sites under the jurisdiction of the department must be tested at a pre-approved hydraulics and erosion control laboratory, prior to the department approving use of the product. Accepted labs for conducting tests are:

- E-Lab contact: Kurt Kelsey (715) 236-5643
- Texas Research International contact: Joel Sprague (864) 242-2220

The use of other labs must be approved by the department prior to testing.

The department recognizes the following testing procedure for manufactured perimeter control and slope interruption products:

- The procedure outlined in the "Methods" and "Data Analyses sections of the technical publication titled "Needed Information: Testing, Analyses, and Performance Values for Slope Interruption and Perimeter Control BMPs" authored by Kurt Kelsey, Tony Johnson, and Ryan Vavra (IECA, 2006). Products in Height Class I, II and III should be tested on slopes steeper than or equal to 8H:1V. Products in Height Class IV, V, and VI should be tested on slopes steeper than or equal to 3H:1V. Data will be used to generate

"P" values to evaluate product performance and ultimately categorize the product based on performance if approved.

If products are available in multiple diameters, testing will only be required on one size if the product density is the same for all product sizes. If product densities differ, then testing will be required for each product diameter of differing density.

A report of test results prepared by the laboratory or an independent party should be submitted to the department for evaluation and consideration of approval.

All products tested and approved as Ditch Checks by the Wisconsin Department of Transportation (WIS DOT) in the WIS DOT Product Acceptability List (PAL) prior to March 20, 2009 are temporarily accepted for use for perimeter control/slope interruption. For permanent placement by the department, products approved based on the WIS DOT PAL must be tested according to the large-scale method described above and test reports shall be submitted to the Department by October 31, 2010. Products without sufficient test data will be removed from the Department's list on November 1, 2010.

Once a product has been tested in accordance with this document, all requested changes or additions to the list of approved products should be forwarded to:

Lenny Kanter
Engineering Consultant – Erosion Control/Stormwater
Wisconsin Department of Commerce
Division of Safety and Buildings
PO Box 7162
Madison, WI 53707

Submittals shall include, but may not be limited to the following product information:

- Product specifications
- Index values including:
  - Dimensions including diameter, length, width, and thickness
  - Weight
  - Density
- Product literature
- Installation instructions for all applicable uses
- Field performance data
- Lab test data (certified lab results with report prepared by the laboratory or independent party)
- Data indicating that the materials used will not present a hazard to human health or the environment
- Any other state agency that has testing in progress, tests completed and/or product approval

Submitted information should be summarized as requested by the department.

The department may revise or revoke any product approval due to any of the following conditions:

- Modification of the product,
- Additional assumptions stated in the product literature,
- Manufacturer's false statements or misrepresentation of facts on which the approval was based,
- Product failure
- Data produced which indicates that the product may present a hazard to the human health or the environment.

Information may be claimed as confidential by a submitter. Such claims must be made at the time of submittal by permanently marking, "confidential business information" on each page containing information referred to as trade secret under ss. 134.90 (1) (c), Stats., which states: "Trade Secret" means information, including a formula, pattern, compilation, program, device, method, technique or process to which all of the following apply:

- The information derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use.
- The information is the subject of efforts to maintain its secrecy that are reasonable under the circumstances.

Fees may be assessed by the department for new product review in accordance with s. Comm 2.51.

Product Classes

Manufactured perimeter control and slope interruption products are currently divided into 5 classes based on **installed height** above grade. The assigned height class for log-type products has been adjusted based on a 2" entrenchment. The product height classes are included in the table below. Products from a higher class are suitable for applications in a lower class.

Product Height Class	Installed Height Above Grade (inches)
Class I	Mat Products
Class II	6-9
Class III	10-15
Class IV	16-20
Class V	>20

Frozen Ground Conditions

The testing protocol for products proposed for installation on frozen ground shall be approved by the department prior to acceptance by the department for product review.

Additional requirements for the installation of manufactured perimeter control devices on frozen ground include:

- The height of the device shall be 5 inches minimum
- Minimum weight of product shall be 20 lbs per linear foot